## The 2025 Beijing Particle Physics and Cosmology Symposium (BPCS): early Universe, gravitational-wave templates, collider phenomenology

Contribution ID: 49 Type: not specified

## The roles of bound state in dark sectors

Monday, 29 September 2025 08:30 (30)

There is a growing interesting in studying dark sectors, which are only feebly coupled to the Standard Model sector, but could be strongly self-coupled. The potential existence of bound state in dark sectors, motivated by hints of strongly self-interacting dark matter, results in novel phenomenology. This talk discusses its applications in dark matter physics and beyond, as well as the methods developed to qualitatively study such dark bound states.

**Primary author(s):** Prof. CHU, Xiaoyong (ICTP-AP, UCAS)

Presenter(s): Prof. CHU, Xiaoyong (ICTP-AP, UCAS)

Session Classification: Plenary